

APPENDIX 5.4.1.20-1

ACREAGES OF BIOTIC COMMUNITIES WITHIN THE 500-FOOT CORRIDOR ALONG ALL ALTERNATIVE RAIL ALIGNMENTS
DANIEL ISLAND MARINE TERMINAL EIS

BIOTIC COMMUNITY TYPE	5 (Proposed)	CNB-1 (North)	CNB-2 (South)	DI-RR-3	DI-RR-4	DI-RR-6	DI-RR-7
UPLAND BIOTIC COMMUNITIES							
Terrestrial Forests					42.8		
Interior Upland Dry and Dry Mesic Forest	89.9			4.5	0.6	96.9	
Oak Flatwoods	4.6					3.5	
Mixed Pine/Hardwoods	118.5			80.6	189.2	156.3	
Planted Loblolly Pine	16.1			37.8	3.8	5.5	
Maritime Forests	41.8			55.6	41.9	13.9	25.3
Longleaf Pine Forest/Flatwoods (burn frequency unknown)	7.8					38.3	
Regularly Burned Longleaf Pine Forest/Flatwoods	66.0			23.6	34.3	6.5	
Infrequently Burned Longleaf Pine Forest/Flatwoods	73.5			87.1	77.4	16.6	
TOTAL UPLANDS	418.2	0.0	0.0	289.1	389.8	337.5	25.3
AQUATIC BIOTIC COMMUNITIES							
FRESHWATER WETLANDS							
Forested Palustrine Wetlands							
Stream Swamp Forest	15.1			4.8	3.2		
Stream Hardwood Bottom	17.1				7.3	6.1	
Pond Cypress Pond Forest							
Swamp Gum Pond Forest	0.5					3.5	
Forested Pond Wetlands (Undetermined)						5.6	
Swamp Gum/Shrub	35.1			14.7	13.1	2.2	
Pond Cypress-Swamp Gum/Shrub				0.3	2.6	11.6	
Forested Palustrine (Undetermined)	21.3			56.7	0.0	15.1	
Woodland Wetlands	1.7					5.4	
Woodland/Shrub Wetlands	4.7			18.8	2.6	58.3	
Shrub Wetlands	3.2			3.8	0.7	0.7	0.7
Depression Meadow	2.1				2.5		
Mixed	25.5			125.9	35.0		
TOTAL FRESHWATER WETLANDS	126.3	0.0	0.0	225.0	66.9	108.4	0.7
ESTUARINE WETLANDS							
Maritime Shrub	0.3		27.0				0.3
Cordgrass/Needlerush Marsh	81.1		8.5	60.4	50.4	99.1	73.0
TOTAL ESTUARINE WETLANDS	81.4	0.0	35.5	60.4	50.4	99.1	73.3
TOTAL WETLANDS	207.7	0.0	35.5	285.4	117.3	207.6	74.0
OPEN WATER AREAS							
Streams and Waterways	2.6		6.5	8.0	1.4	3.7	32.4
Reservoirs						1.0	
TOTAL OPEN WATER AREAS	2.6	0.0	6.5	8.0	1.4	4.7	32.4
DEVELOPED/DISTURBED	157.7	57.4	47.2	165.2	256.3	184.9	197.4
TOTAL ACREAGE IN 500-FOOT CORRIDOR	786.2	57.4	89.2	747.7	764.9	734.6	329.1

APPENDIX 5.4.1.20-1

**ACREAGES OF BIOTIC COMMUNITIES WITHIN THE 500-FOOT CORRIDOR ALONG ALL ALTERNATIVE RAIL ALIGNMENTS
DANIEL ISLAND MARINE TERMINAL EIS**

BIOTIC COMMUNITY TYPE	DI-RR-3/4	DI-RR-3/4/5	DI-RR-3/5	DI-RR-3/5/4	DI-RR-3/6	DI-RR-3/6B	DI-RR-4/3
UPLAND BIOTIC COMMUNITIES							
Terrestrial Forests							
Interior Upland Dry and Dry Mesic Forest	4.5	8.6	8.6	4.5	28.3	29.2	42.8
Oak Flatwoods							0.6
Mixed Pine/Hardwoods	80.2	80.2	107.7	107.7	143.1	108.9	189.3
Planted Loblolly Pine	3.8	16.1	16.1	3.8	5.5		37.8
Maritime Forests	55.6	55.6	45.9	45.9	45.9	55.6	41.9
Longleaf Pine Forest/Flatwoods (burn frequency unknown)		7.8	7.8		38.3	38.3	
Regularly Burned Longleaf Pine Forest/Flatwoods	35.0	41.9	42.7	45.2	19.5	60.9	25.4
Infrequently Burned Longleaf Pine Forest/Flatwoods	77.4	74.8	73.5	77.5	16.6	16.6	87.1
TOTAL UPLANDS	256.4	285.1	302.3	284.6	297.0	309.4	424.7
AQUATIC BIOTIC COMMUNITIES							
FRESHWATER WETLANDS							
Forested Palustrine Wetlands							
Stream Swamp Forest	3.2	7.3	15.2	11.0			4.8
Stream Hardwood Bottom	7.2	5.2	16.8	11.3	6.1	4.1	0.1
Pond Cypress Pond Forest							
Swamp Gum Pond Forest					3.6	3.5	
Forested Pond Wetlands (Undetermined)					5.6	3.8	
Swamp Gum/Shrub	10.4	14.9	21.8	17.2	2.2	28.9	18.7
Pond Cypress-Swamp Gum/Shrub	2.6			2.6	11.6	3.5	0.3
Forested Palustrine (Undetermined)	54.8	54.8	61.3	61.3	61.2	54.8	1.5
Woodland Wetlands		1.7	1.7		5.4		
Woodland/Shrub Wetlands	19.9	19.9	21.0	21.0	48.8	34.8	2.1
Shrub Wetlands							4.5
Depression Meadow	2.5	4.1	2.1				
Mixed	138.4	105.9	48.3	80.8	27.2	5.0	22.5
TOTAL FRESHWATER WETLANDS	238.9	213.7	188.1	205.2	171.7	138.3	54.4
ESTUARINE WETLANDS							
Maritime Shrub							
Cordgrass/Needlerush Marsh	60.4	60.4	57.1	57.1	60.9	63.7	50.4
TOTAL ESTUARINE WETLANDS	60.4	60.4	57.1	57.1	60.9	63.7	50.4
TOTAL WETLANDS	299.3	274.1	245.1	262.3	232.5	202.0	104.8
OPEN WATER AREAS							
Streams and Waterways	8.0	8.0	7.0	7.0	7.0	8.0	1.4
Reservoirs							
TOTAL OPEN WATER AREAS	8.0	8.0	7.0	7.0	7.0	8.0	1.4
DEVELOPED/DISTURBED	165.2	171.4	166.4	160.3	163.5	168.0	256.3
TOTAL ACREAGE IN 500-FOOT CORRIDOR	729.0	738.6	720.9	714.2	700.1	687.4	787.2

APPENDIX 5.4.1.20-1

**ACREAGES OF BIOTIC COMMUNITIES WITHIN THE 500-FOOT CORRIDOR ALONG ALL ALTERNATIVE RAIL ALIGNMENTS
DANIEL ISLAND MARINE TERMINAL EIS**

BIOTIC COMMUNITY TYPE	DI-RR-4/5	DI-RR-5/3	DI-RR-5/3/4/5	DI-RR-5/3/5	DI-RR-5/3/6	DI-RR-6/5	DI-RR-6/5/4
UPLAND BIOTIC COMMUNITIES							
Terrestrial Forests	42.8						
Interior Upland Dry and Dry Mesic Forest	4.7		4.13	4.13	23.79	105.5	101.41
Oak Flatwoods						3.5	3.52
Mixed Pine/Hardwoods	189.2	165.62	165.19	192.69	228.07	118.6	118.55
Planted Loblolly Pine	16.1	37.75	16.13	16.13	5.45	16.1	3.76
Maritime Forests	41.9	54.33	54.33	44.64	44.64	13.9	13.93
Longleaf Pine Forest/Flatwoods (burn frequency unknown)	7.8		7.84	7.84	38.27	7.8	
Regularly Burned Longleaf Pine Forest/Flatwoods	41.2	23.58	41.9	42.66	19.5	66.0	68.57
Infrequently Burned Longleaf Pine Forest/Flatwoods	74.8	87.05	74.78	73.52	16.55	73.5	77.52
TOTAL UPLANDS	418.4	368.3	364.3	381.6	376.3	405.0	387.3
AQUATIC BIOTIC COMMUNITIES							
FRESHWATER WETLANDS							
Forested Palustrine Wetlands							
Stream Swamp Forest	7.3	4.8	7.3	15.2		15.2	11.0
Stream Hardwood Bottom	5.3		5.2	16.8	6.1	17.1	11.6
Pond Cypress Pond Forest							
Swamp Gum Pond Forest					3.6	0.5	0.5
Forested Pond Wetlands (Undetermined)					5.6		
Swamp Gum/Shrub	17.6	15.3	15.5	22.3	2.8	35.1	30.5
Pond Cypress-Swamp Gum/Shrub		0.3			11.6		2.6
Forested Palustrine (Undetermined)	0.0	45.1	43.1	49.6	49.6	15.1	15.1
Woodland Wetlands	1.7		1.7	1.7	5.4	1.7	
Woodland/Shrub Wetlands	2.6	13.1	14.2	15.2	43.0	4.7	4.7
Shrub Wetlands	0.7	4.5	0.7	0.7	0.7	3.2	3.2
Depression Meadow	4.1		4.1	2.1		2.1	
Mixed	2.5	125.9	105.9	48.3	27.2	25.5	58.0
TOTAL FRESHWATER WETLANDS	41.7	208.9	197.6	171.9	155.5	120.2	137.4
ESTUARINE WETLANDS							
Maritime Shrub		0.3	0.3	0.3	0.3		
Cordgrass/Needlerush Marsh	50.4	87.2	87.2	83.9	87.7	95.4	95.4
TOTAL ESTUARINE WETLANDS	50.4	87.5	87.5	84.2	88.0	95.4	95.4
TOTAL WETLANDS	92.1	296.4	285.1	256.1	243.5	215.6	232.7
OPEN WATER AREAS							
Streams and Waterways	1.4	3.6	3.6	2.6	2.6	3.7	3.7
Reservoirs		0.9	0.9	0.9	0.9	1.0	1.0
TOTAL OPEN WATER AREAS	1.4	4.5	4.5	3.5	3.5	4.7	4.7
DEVELOPED/DISTURBED	262.5	138.1	144.4	139.3	136.5	167.1	161.0
TOTAL ACREAGE IN 500-FOOT CORRIDOR	774.5	807.3	798.3	780.6	759.8	792.4	785.7